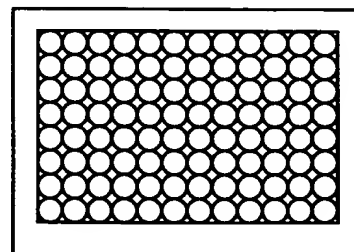
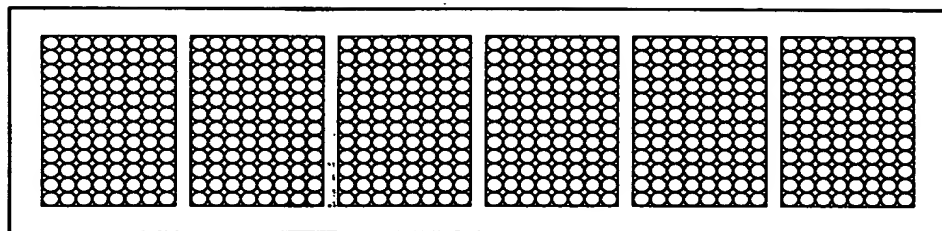


Pipette tip racks

Fig 1

Thermocycler with heated lid for incubations



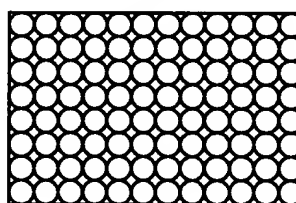
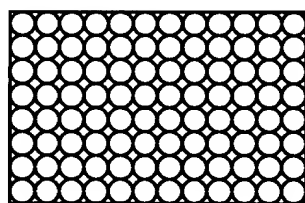
Micro-plates or Multi-tube platform

Library source Plate (P1)

Destination or Sample Plate (P5)

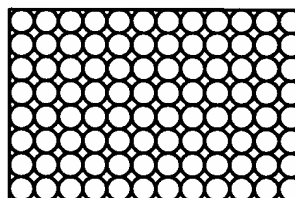
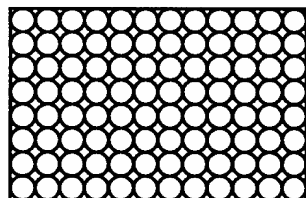
Cooled Reagent Rack with coating mix (1), competitor DNA (2), detergent and protease (3), and protease inhibitor (4)

1	○	○	○	○
2	○	○	○	○
3	○	○	○	○
4	○	○	○	○



Probe source Plate (P2)

Streptavidin Plate (E1)



8 Plate Stacking Tower

Figure 1. Schematic of the robotic workstation deck.

#### Hardware:

Robotic Arm

Plate handler for positioning of microplates

Automated lid handler to remove and replace lids for wells on non-cross contamination plates (NCC)

Tip assembly for sample distribution with disposable tips

Washable tip assembly for sample distribution

96 gel loading block

Cooled reagent rack, Peltier cooled

4 microplate pipette positions (2 Peltier cooled)

Primus 96-well Thermocycler with heated, motorized lid.

Stacking tower for 8 microplates

6 Disposable tip rack positions

Computer control system: Pentium II processor, 300 MHz, 4 GB HD, 32 MB memory, 17"

SUGA monitor

Fig 2

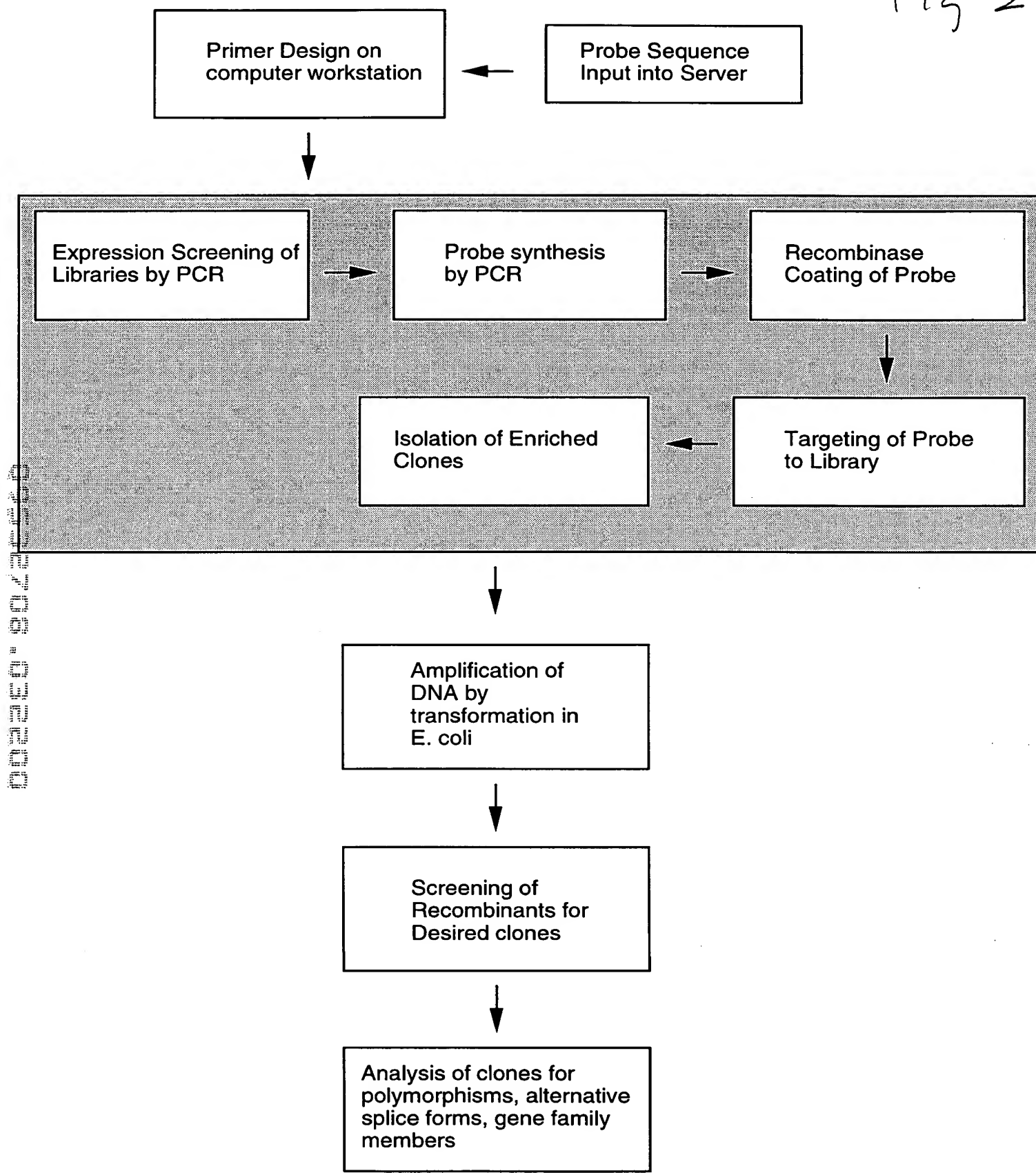


Figure 2. Fully Automated, High-Throughput Gene Cloning